IN THE CLAIMS

The following is a complete listing of the claims, and replaces all earlier versions and listings.

 (Previously Presented) A method of inserting a message into digital data representative of physical quantities, the message including ordered symbols, said method comprising the steps of:

segmenting the data into regions; and

associating at least one region with each symbol to be inserted, wherein, for each region into which a symbol in question is to be inserted, said method includes the steps of:

determining a pseudo-random function, from a key which depends on an initial key and on a length of the message,

modulating the symbol in question by the previously determined pseudo-random function in order to supply a pseudo-random sequence, and

adding the pseudo-random sequence to the region in question,

wherein the dependence of the key on the length of the message is provided by a dependence of the key on:

 $\label{eq:continuous} the number of times the symbol to be inserted has already \\$ been inserted into other regions, and

the ranking of the symbol among the ordered symbols.

2. (Canceled)

 (Previously Presented) A method according to Claim 1, further comprising the step of transforming the digital data by a reversible transformation.

4. - 7. (Canceled)

8. (Previously Presented) A device for inserting a message into digital data representative of physical quantities, the message including ordered symbols, said device comprising:

means for segmenting the data into regions; and
means for associating at least one region with each symbol to be inserted,
wherein said device further includes:

means for determining a pseudo-random function, for each region into which a symbol in question is to be inserted, from a key which depends on an initial key and on a length of the message,

means for modulating the symbol in question by the previously determined pseudo-random function in order to supply a pseudo-random sequence, and means for adding the pseudo-random sequence to the region in question,

wherein said means for determining a pseudo-random function is configured in such a way that a dependence of the key on the length of the message is provided by a dependence of the key on:

the number of times the symbol to be inserted has already been inserted into other regions, and

the ranking of the symbol among the ordered symbols.

9. (Canceled)

(Previously Presented) A device according to Claim 8, further comprising means for prior transformation of the digital data by a reversible transformation.

11. - 14. (Canceled)

15. (Previously Presented) A device according to Claim 8, wherein said steps of segmenting and associating, and the steps of determining, modulating, and adding are performed by:

a microprocessor,

a read-only memory including a program for processing the data, and
a random-access memory including registers suitable for recording variables
modified during running of the program.

16. (Canceled)

17. (Currently Amended) An apparatus for processing a digital image, comprising means suitable for implementing the method according to claim 1 any one of claims 1 and 4

18. (Currently Amended) An apparatus for processing a digital image, comprising a device according to <u>claim 8 any one of claims 8 and 11</u>.

19. (Previously Presented) A storage medium storing a computer-readable program for implementing a method for inserting according to Claim 1.

20. (Previously Presented) A storage medium according to Claim 19, wherein said storage medium is detachably mountable on a device for inserting a message that includes ordered symbols into digital data representative of physical quantities, and

wherein the device comprises:

means for segmenting the data into regions;

means for associating at least one region with each symbol to be inserted, said device further including:

means for determining a pseudo-random function, for each region into which a symbol in question is to be inserted, from a key which depends on an initial key and on a length of the message,

means for modulating the symbol in question by the previously determined pseudo-random function in order to supply a pseudo-random sequence, and

means for adding the pseudo-random sequence to the region

in question,

wherein said means for determining a pseudo-random function is

configured in such a way that a dependence of the key on the length of the message is provided by a dependence of the key on:

the number of times the symbol to be inserted has already been inserted into other regions, and

the ranking of the symbol among the ordered symbols.

- 21. (Previously Presented) A storage medium according to Claim 19, wherein said storage medium is a floppy disk or a CD-ROM.
- 22. (Previously Presented) A computer program product embodying a computer program with executable instructions for causing a computer to perform a method of inserting according to Claim 1.
 - 23. 26. (Canceled)